

RESEARCH PROBLEM STATEMENT

Problem Title: Worker Visibility

No.: 05.01-3

Submitted By: Darrell Giannonatti and Doug Anderson

E-mail:

1. Briefly describe the problem to be addressed:

Safety in work zones is a high priority for UDOT. Construction projects are traditionally problem areas due to reduced number of lanes, narrow shoulders, increased congestion, construction vehicle movements, and other factors.

Determine if there is a benefit to utilize a different color for UDOT personnel to differentiate people resources from equipment and traffic control Devices. Investigate other DOT policies & procedures to determine innovative practices.

2. List the research objective(s) to be accomplished:

1. Review and identify national studies performed on subject.
2. Review and identify other state practices.
3. Identify best practice.
4. Create PPE policy for UDOT.

3. List the major tasks required to accomplish the research objective(s):

Estimated person-hours

1. Determine National DOT standard practices.
2. Identify Scientific research performed on subject.
3. Research other state practices, policies and procedures as well as effectiveness.
4. Develop a best practices PPE policy.
- 5.
- 6.

4. Outline the proposed schedule (when do you need this done, and how we will get there):

Contract by June, 2005.

The synthesis of research and Policy will be completed by October 31st, 2005.

5. Indicate type of research and / or development project this is:

Large: ☐ Research Project ☐ Development Project
Small: ☒ Research Evaluation ☐ Experimental Feature ☐ New Product Evaluation ☐ Tech Transfer Initiative :
☐ Other _____

6. What type of entity is best suited to perform this project (University, Consultant, UDOT Staff, Other Agency, Other)?

Consideration will be given to either consultant or University, depending upon credibility of staff and ability to complete by October 31st, 2005.

7. What deliverable(s) would you like to receive at the end of the project? (e.g. useable technical product, design method, technique, training, workshops, report, manual of practice, policy, procedure, specification, standard, software, hardware, equipment, training tool, etc.)

A synthesis of research and an implementable policy.

8. Describe how will this project be implemented at UDOT.

Implement policy in construction.

9. Describe how UDOT will benefit from the implementation of this project, and who the beneficiaries will be.

Increased Worker safety.

10. Describe the expected risks, obstacles, and strategies to overcome these.

None

11. List the key UDOT Champion of this project (person who will help Research steer and lead this project, and will participate in implementation of the results): Darrell Giannonatti

12. Estimate the cost of this research study including implementation effort (use person-hours from No. 3): \$25,000

13. List other champions (UDOT and non-UDOT) who are interested in and willing to participate in the Technical Advisory Committee for this study:

Name	Organization/Division/Region	Phone	Attended UTRAC?
A) Resident Engineer (Ed Rock)			
B) Region Construction Engineers (Bob Westover)			
C) Region Traffic Engineer (Robert Miles)			
D)			
E)			
F)			
G)			

14. Identify other Utah agencies, regional or national agencies, or other groups that may have an interest in supporting this study: